

INCH-POUND

MIL-DTL-2726/50D  
10 January 2003  
SUPERSEDING  
MIL-R-2726/50C(SH)  
3 July 1986

# DETAIL SPECIFICATION SHEET

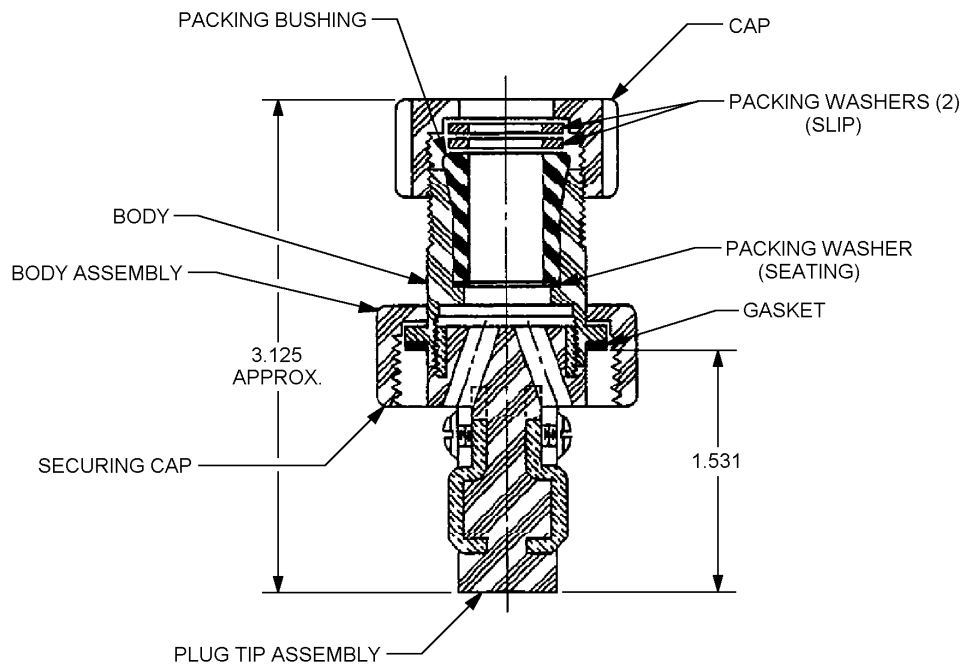
RECEPTACLE, PLUG, ELECTRICAL, 15-AMPERE, 125/250-VOLTS,  
2-POLE, GROUNDED (SYMBOL NO. 720.3)

Inactive for new design after 26 December 1990

This specification is approved for use by the Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the product described herein shall consist of this specification and the latest issue of MIL-R-2726.

PART NUMBER M2726/50-001



Inches	mm
1.531	38.89
3.125	79.38

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance is  $\pm .016$  inch (0.41 mm).
4. Angular tolerance is  $\pm 0.5^\circ$ .
5. Supersedes MS17791.

FIGURE 1. Plug assembly.

AMSC N/A

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FSC 5935

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## PLUG TIP ASSEMBLY

Technical drawing of a mechanical assembly, showing three views: a top view, a side view, and a cross-section view labeled "SECTION D-D".

**Top View:**

- Outer diameter: 1.000 DIA. (+ .015, - .000)
- Inner diameter: .156 R.
- Three holes: .138-32NC-2B, .188 DEEP (MAX.)
- Section line E-E is indicated.

**Side View:**

- Overall height: 1.688
- Section line D-D is indicated.
- Dimensions: .250, .500, .688, .188, 1.188, .250, .625, .750
- Angles: 45°, 14°
- Labels: SLEEVE, CONTACT

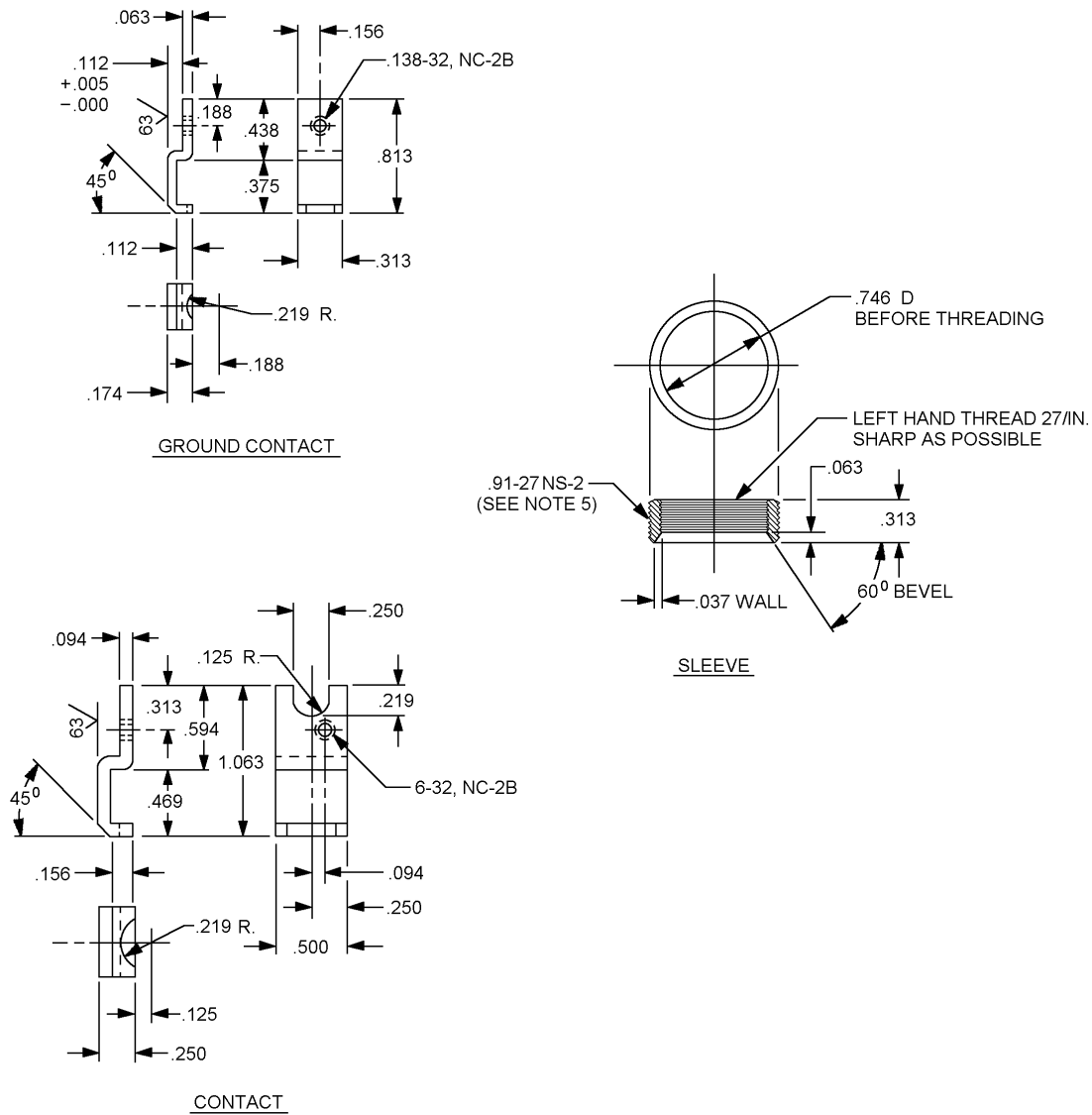
**Cross-Section View (SECTION D-D):**

- Inner diameter: .250
- Outer diameter: .750
- Section line D-D is indicated.
- Angles: 45°, 45°

**SECTION E-E:**

- Overall height: 1.375
- Section line E-E is indicated.
- Dimensions: .063, .250, .438, .489 (+ .005, - .000)
- Angles: 20°, 45°
- Label: GROUND CONTACT

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Inches	mm
.005	0.13
.037	0.94
.063	1.59
.094	2.38
.112	2.84
.125	3.18
.156	3.97
.174	4.42
.188	4.76
.219	5.56
.250	6.35
.313	7.94
.438	11.11
.469	11.91
.500	12.70
.594	15.08
.625	15.88
.746	18.95
.813	20.64
1.063	26.99

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm .016$  inch (0.41 mm).
4. Angular tolerance is  $\pm 0.5^\circ$ .
5. Instruction sheet: An instruction sheet, (on paper 4-3/4 by 4-3/4 inches) with the information shown on figure 4 shall be furnished with each plug.

FIGURE 2. Plug tip assembly – Continued.

# MIL-DTL-2726/50D

## BODY ASSEMBLY

PART NO. M2726/50-003  
(INCLUDES PACKING ASSEMBLIES  
PART NOS. M2726/50.004-1, -2 AND -3)

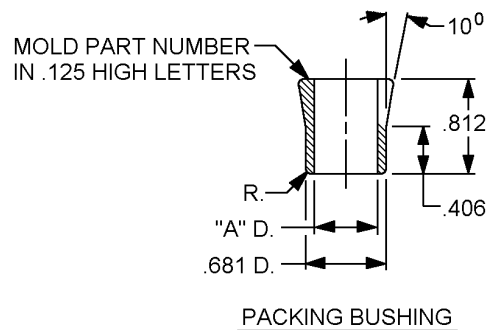
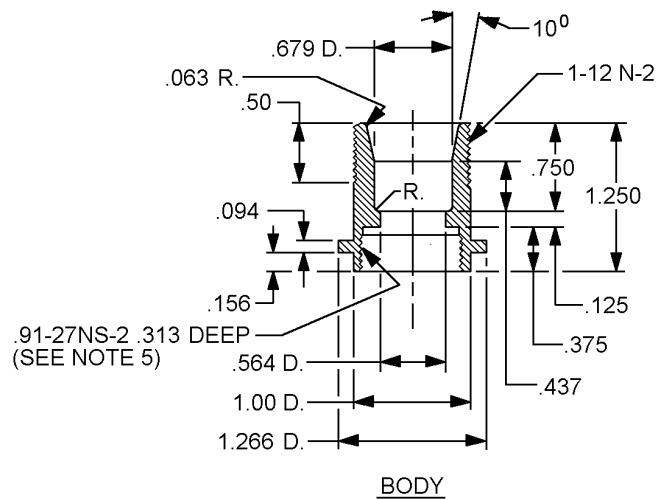
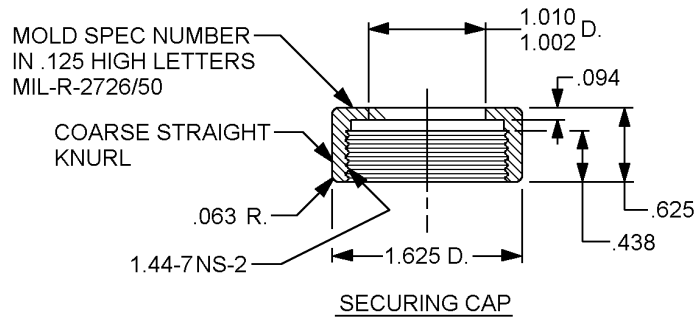


FIGURE 3. Plug body assembly.

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Inches	mm
.063	1.59
.094	2.38
.125	3.18
.156	3.97
.375	9.53
.406	10.31
.415	10.54
.437	11.10
.438	11.13
.440	11.18
.470	11.94
.500	12.70
.504	12.80
.520	13.21
.550	13.97
.560	14.22
.625	15.88
.669	16.99
.679	17.25
.681	17.30
.750	19.05
.812	20.62
1.000	25.40
1.002	25.45
1.010	25.65
1.250	31.75
1.266	32.15
1.625	41.28

Packing assembly part no.	Packing bushing "A" diameter	Packing washers .063 thick	
		Seating	Slip (2)
M2726/50-004-1	0.415	.669 X .440	.750 X .560
M2726/50-004-2	0.470	.669 X .520	
M2726/50-004-3	0.550	.669 X .560	

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is  $\pm .016$  inch (0.41 mm). Tolerances for the packing bushing and packing washers in the table above are  $\pm .005$  inch.
3. Angular tolerance is  $\pm 0.5^\circ$ .
4. Metric equivalents are given for general information only.
5. Instruction sheet: An instruction sheet, (on paper 4-3/4 by 4-3/4 inches) with the information shown on figure 4 shall be furnished with each plug.

FIGURE 3. Plug body assembly - Continued.

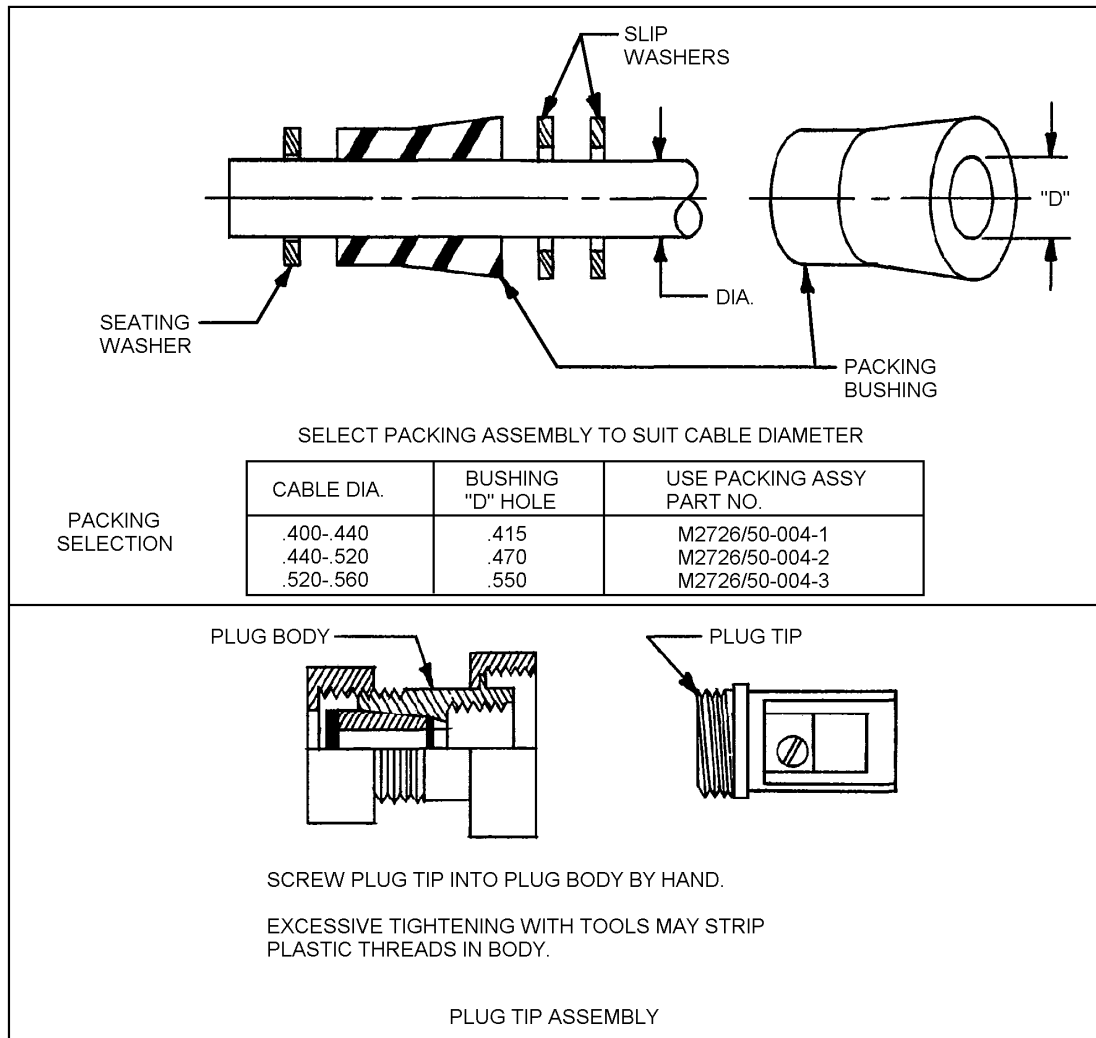
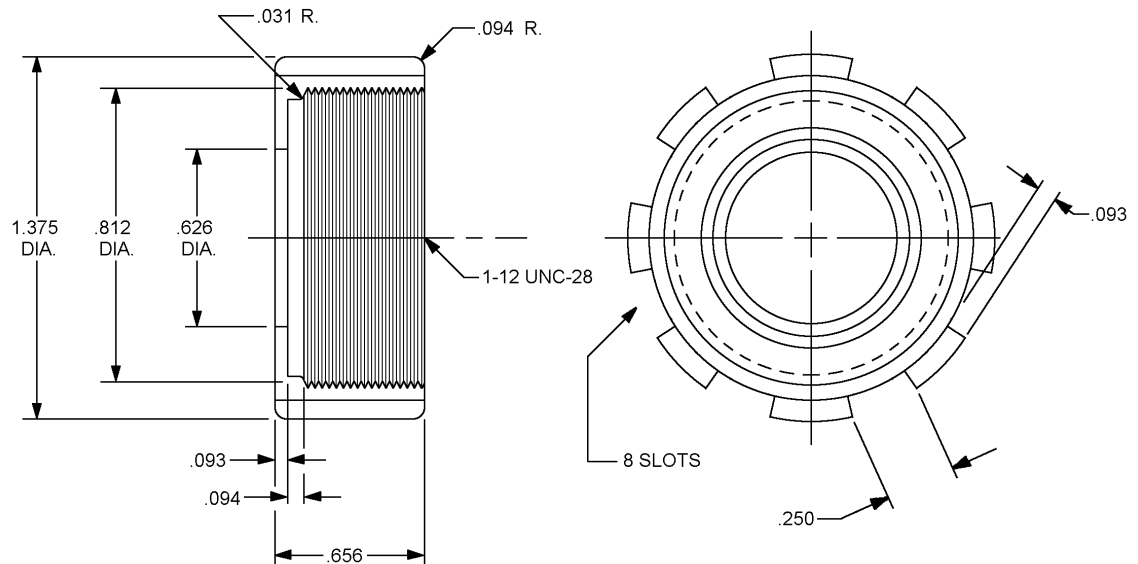


FIGURE 4. Instruction sheet.

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Inches	mm
.031	0.794
.093	2.362
.094	2.381
.250	6.350
.626	15.900
.656	16.662
.812	20.625
1.375	34.925

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance is  $\pm .010$  or  $\pm .010$  per linear inch, whichever is greater.
4. Angular tolerance is  $\pm .50^\circ$ .
5. Threads shall be as specified in FED-STD-H28/2.
6. The part number, tube size, and manufacturer's logo or name shall be in .125-inch high raised letters on the face of the cap.

FIGURE 5. Stuffing tube cap, nylon.

## MIL-DTL-2726/50D

### Requirements:

Dimensions and configurations: See figures 1 through 5.

Watertight requirement: The plug shall be watertight in accordance with MIL-STD-108 when coupled with a mating receptacle.

Strain relief: 30 pounds.

### Materials:

Body: The body shall be polyamide (nylon).

Packing cap: A packing cap shall be provided, in accordance with MIL-S-19622 and figure 5.

Packing bushing: The packing bushing shall be neoprene.

Gasket: The gasket shall be rubber in accordance MIL-PRF-900.

Plug tip assembly: The plug tip assembly shall be molded phenolic in accordance with ASTM D5948.

Terminal screw: The terminal screw shall be of panhead design and made of brass.

Sleeve: The sleeve shall be brass.

Contact terminals: The contact terminals shall be copper.

Washers: Washers shall be polyamide (nylon).

Packing assemblies: Part or Identifying Number (PIN) M2726/50-004-1, M2726/50-004-2 and M2726/50-004-3 shall be furnished. User shall select the size that fits the cable as shown on figure 4.

### Test cables:

Type M3432-03HOF (3/16) in accordance with MIL-DTL-3432 with PIN M2726/50-004-1 (not furnished).

In accordance with MIL-DTL-24643 and MIL-DTL-24643/3 with PIN M2726/50-004-2 (not furnished).

Type M3432-03HOF (3/14) in accordance with MIL-DTL-3432 with PIN M2726/50-004-3 (not furnished).

Design: Binding head screws may be used. The screw for the ground contact terminal shall be finished in a distinctive green color. Individual pathways through the contact insulation shall be provided to each contact of ample size to accept the insulated conductors.

Gauges: Standard "GO" and "NO-GO" gauges shall be used for gauging the 29/32-27 NS-2 threads of the body and sleeve.

Instruction sheet: An instruction sheet, on 4 3/4 by 4 3/4 inch paper, with the information from figure 4 shall be furnished with each plug.

Electrical ratings: 15 ampere, 125/250 volts.

Mating receptacles: MIL-R-2726/47, PIN M2726/47-002.

MIL-R-2726/48, PIN M2726/48-001 (not furnished).

PIN: M2726/50-001 (receptacle, plug).  
M2726/50-002 (plug tip replacement).



# MIL-DTL-2726/50D

## Examination and tests:

Requirements for first article and quality conformance, as shown below, shall be in accordance with MIL-R-2726. Examinations and tests shall be performed in the order shown (see table I).

Examination: Visual and dimensional examination shall meet the requirements for materials, design and construction, performance, marking and workmanship indicated in MIL-R-2726.

Tests: The following tests shall be required.

TABLE I. First article and quality conformance inspection.

Test per MIL-R-2726	First article	Quality conformance
Insulation resistance	X	X
Dielectric withstanding voltage	X	X
Contact resistance, plugs and receptacles	X	X
Endurance	X	
Salt spray	X	
Contact resistance, plugs and receptacles	X	
Current load	X	
Vibration	X	
Shock	X	
Effectiveness of enclosure	X	X
Dielectric withstanding voltage	X	
Mechanical abuse	X	
Ball drop impact	X	
Strain relief	X	

Note: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

## CONCLUDING MATERIAL

Custodians:  
Navy – SH  
DLA – CC

Preparing activity:  
DLA - CC

(Project 5935-4424-003)